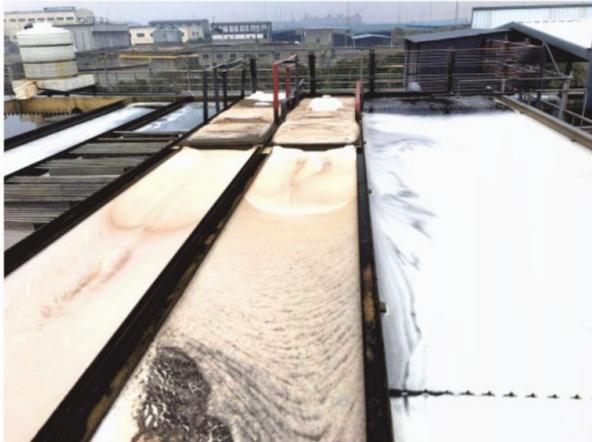


废水处理工程应用案例

Wastewater treatment
engineering application case



垃圾中转站渗滤液
Perasse fluid from the garbage transfer station



电镀废水
Electroplating Effluent



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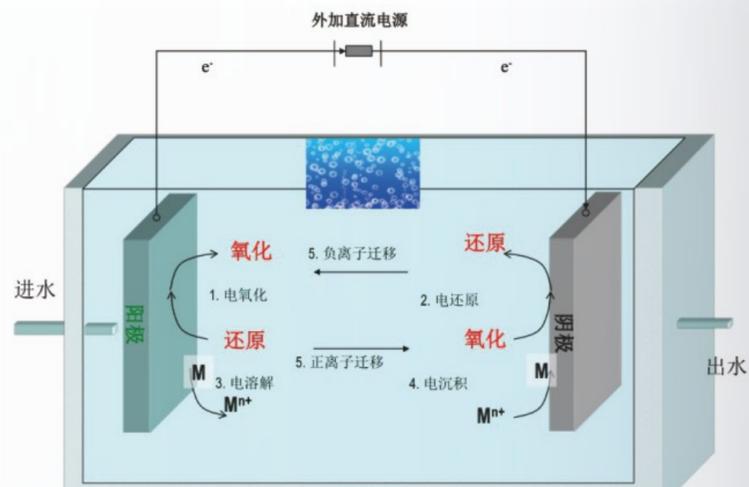


SOC SUPER OXIDATION
TECHNOLOGY
SOC超级氧化技术

广州新奥环境技术有限公司
NEAO Guangzhou Environmental Technology Co.,Ltd

SOC超级氧化技术

SOC Super Oxidation Technology



◆ SOC超级氧化技术原理

Principle of SOC Super Oxidation Technology

在外加电场的作用下，在化学反应器内，添加特质的催化剂，在催化剂的促进作用下，有机物在阳极发生氧化反应，将有机物氧化分解为CO₂、H₂O、小分子有机物，无二次污染产生；对于氨氮废水，可直接将氨氮分解为氮气和水。

Under the action of an external electric field, a special catalyst is added to the chemical reactor. Under the promotion of the catalyst, the organic matter undergoes an oxidation reaction at the anode, and the organic matter is oxidized and decomposed into CO₂, H₂O, and small molecular organic matter, without secondary pollution; for ammonia nitrogen wastewater, ammonia nitrogen can be directly decomposed into nitrogen and water.

◆ SOC超级氧化技术优势

SOC super oxidation technology advantages

- 不需要外加氧化还原剂，避免了外加化学药剂引起的二次污染问题；
- 通过改变外加电流、电压，改善处理效果；
- 选择性的分解废水中的有机物，将其降解为二氧化碳。不电解水，电耗低；
- 反应条件温和，在常温常压下就可高效运行；
- 无污泥产生，消除二次污染风险，大大降低污水处理的附加费用；
- 兼具杀菌、消毒作用；
- 既可单独使用，又可与其它处理相结合。作为预处理可提高废水可生化性；
- 具有占地小、设备集成和自动化度高、处理费用低的优点；
- 脱色、去味效果明显；

- There is no need to add redox agents, which avoids the problem of secondary pollution caused by external chemicals;
- Improve the treatment effect by changing the applied current and voltage;
- Selectively decompose organic matter in wastewater and degrade it into carbon dioxide. No electrolysis of water, low power consumption;
- The reaction conditions are mild, and it can operate efficiently at normal temperature and pressure;
- No sludge is produced, the risk of secondary pollution is eliminated, and the additional cost of sewage treatment is greatly reduced;
- It has the functions of sterilization and disinfection;
- It can be used alone or combined with other treatments. As a pretreatment, it can improve the biodegradability of wastewater;
- It has the advantages of small footprint, high equipment integration and automation, and low processing costs;
- The effect of decolorization and deodorization is obvious;

◆ SOC超级氧化技术应用领域

SOC super oxidation technology application field

- 用于工业企业的污水处理及其升级改造：确保COD、氨氮、色度、硝基苯、苯胺、苯酚、氰化物等指标达标排放。COD小于30mg/L，氨氮小于1mg/L，色度为无色。
- 用于钢铁焦化企业的污水处理及其升级改造：确保COD、氨氮、色度、苯酚等污染物达标排放。COD小于30mg/L，氨氮小于1mg/L，色度为无色透明。
- 用于垃圾填埋场渗滤液的污水处理及其升级改造：确保COD、氨氮、色度等指标达标排放。不再用膜系统，不产生浓盐水。
- 用于应急事故及渗坑、黑臭水体治理：确保COD、氨氮、色度、硝基苯、苯胺、苯酚等指标达标排放。
- 用于工业园区污水处理厂的污水处理及其升级改造：确保COD、氨氮、色度、硝基苯、苯胺、苯酚等指标达标排放。
- 用于中水回用、零排放，膜处理前污水的预处理，降低COD等污染物浓度，延长膜的使用寿命。
- 用于中水回用、零排放，膜处理后浓盐水的深度处理，降低COD、氨氮、色度等指标，使其达标排放和污水的再循环使用要求。在实际应用上，为了方便用户，我们将该技术的相关设备模块化、成套化、自动化。可以根据水质水量调整组合，向客户提供成套设备，实现了自动反冲洗、自动操作等自动化运行功能。
- It is used for sewage treatment and upgrading of industrial enterprises: to ensure that COD, ammonia nitrogen, chroma, nitrobenzene, aniline, phenol, cyanide and other indicators are discharged up to the standard. COD is less than 30mg/L, ammonia nitrogen is less than 1mg/L, and the color is colorless.
- It is used for sewage treatment and upgrading of iron and steel coking enterprises: to ensure that COD, ammonia nitrogen, chroma, phenol and other pollutants are discharged up to the standard. COD is less than 30mg/L, ammonia nitrogen is less than 1mg/L, and the chromaticity is colorless and transparent.
- Sewage treatment and upgrading for leachate from landfills: ensure that COD, ammonia nitrogen, chromaticity and other indicators are discharged up to the standard. Membrane system is no longer used, and concentrated brine is not produced.

- It is used for emergency accidents and seepage pit, black and odorous water treatment: to ensure that COD, ammonia nitrogen, chromaticity, nitrobenzene, aniline, phenol and other indicators meet the standard discharge.
- Used for sewage treatment and upgrading of industrial park sewage treatment plants: to ensure that COD, ammonia nitrogen, chroma, nitrobenzene, aniline, phenol and other indicators meet the discharge standards.
- It is used for reuse of reclaimed water, zero discharge, pretreatment of sewage before membrane treatment, reducing the concentration of pollutants such as COD, and prolonging the service life of membrane.
- It is used for reclaimed water reuse, zero discharge, advanced treatment of concentrated brine after membrane treatment, reducing COD, ammonia nitrogen, chromaticity and other indicators, so that it can meet the requirements of standard discharge and sewage recycling. In practical application, for the convenience of users, we modularize, complete and automate the related equipment of this technology. The combination can be adjusted according to the water quality and quantity, and complete sets of equipment can be provided to customers, which realizes automatic operation functions such as automatic backwashing and automatic operation.

◆ 设备型式和使用领域

Equipment type and field of use

